METHOD FOR MANUFACTURING CONDUCTIVE CARBON NANOTUBE HAVING SCATTERED METALS THEREON AND PATTERNING METHOD USING THE SAME TO IMPROVE ELECTROCONDUCTIVITY

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Abstract of KR 20040107763 (A)

PURPOSE: A method for manufacturing conductive carbon nanotube(CNT) having scattered metals thereon and a patterning method using the same are provided to improve electroconductivity and surface density, thereby being suitably used as a biosensor. CONSTITUTION: The method for manufacturing conductive CNT having scattered metals thereon comprises: (a) providing CNT having carboxyl groups; (b) binding the carboxyl groups and amino groups of a compound having both amino groups and thiol groups to provide CNT modified with a thiol group; and (c) binding the thiol groups of the modified CNT to metal. The patterning method using the conductive CNT comprises: (a) providing a substrate having thiol groups exposed thereon; (b) binding the metal of the CNT to the thiol groups of the substrate surface; and (c) binding another conductive CNT to the CNT bound to the substrate surface.

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